

DH-IPC-HDW2649TM-S-T-PV

6MP Smart Dual Light Fixed-focal Eyeball WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

- 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6 MP (3288×1850) @20 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. IR distance is 30 m and the max. warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Supports max. 256 G Micro SD card; built-in Mic; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- SMD Plus.



SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes. Wide voltage: The camera allows \pm 30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification Camera 1/2.7" CMOS Image Sensor Max. Resolution 3288 (H) × 1850 (V) ROM 128 MB 256 MB RAM Scanning System Progressive Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s 0.007 lux@F1.6 (Color, 30 IRE) Min. Illumination 0.0007 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio >56 dB Up to 30 m (98.43 ft) (IR) Illumination Distance Up to 30 m (98.43 ft) (Warm light) Illuminator On/Off Control Auto;Manual Illuminator Number 1 (IR LED); 1 (Warm light) Pan: 0°-360° Angle Adjustment Tilt: 0°-78° Rotation: 0°-360° Lens Lens Type Fixed-focal Lens Mount M12 3.6 mm; 2.8 mm Focal Length Max. Aperture F1.6 2.8 mm: H: 112°; V: 61°; D: 132° Field of View 3.6 mm: H: 91°; V: 46°; D: 110° Iris Control Fixed 2.8 mm: 1.0 m (3.28 ft) Close Focus Distance 3.6 mm: 1.7 m (5.58 ft) Observe Lens Detect Recognize Identify 12.2 m 61.2 m 24.5 m 6.1 m 2.8 mm (200.79 ft) (80.38 ft) (40.03 ft) (20.01 ft) 85.4 m 34.2 m 17.1 m 8.5 m 3.6 mm (280.18 ft) (112.20 ft) (56.10 ft) (27.89 ft) DORI Distance *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the

*DORI (Detect, Observe, Recognize, Identity) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
SMD	SMD Plus
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

	Video			
	Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream)		
	Smart Codec	Smart H.265+; Smart H.264+		
	Video Frame Rate	Main stream: 3288 × 1850@(1–20 fps)/2688 × 1520@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
	Streaming Capability	2 streams		
	Resolution	6M (3288 × 1850/3200 × 1800); 5M (2880 × 1620); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
	Bit Rate Control	VBR;CBR		
	Video Bit Rate	H.264: 32 kbps–8192 kbps; H.265: 12 kbps–8192 kbps		
	Day/Night	Auto(ICR)/Color/B/W		
	BLC	Yes		
	HLC	Yes		
	WDR	120 dB		
	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
	Gain Control	Auto/Manual		
	Noise Reduction	3D NR		
	Motion Detection	OFF/ON (4 areas, rectangular)		
	Region of Interest (RoI)	Yes (4 areas)		
	Smart Illumination	Yes		
	Smart Dual Light	Yes		
	Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)		
	Mirror	Yes		
	Privacy Masking	4 areas		
	Audio			
	Built-in MIC	Yes, built-in Mic		
	Built-in Speaker	Yes, built-in speaker		
	Audio Compression	G.711a; G.711Mu; PCM; G.726		
	Alarm			
	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception		
	Network			
	Network Port	RJ-45 (10/100 Base-T)		

SDK and API

Yes

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Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; P2P; Bonjour; Auto Registration
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
User/Host	20 (Total bandwidth: 48 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	lE; Chrome; Firefox
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Mobile Client	iOS;Android
Security	Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 certification;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade
Certification	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Power	
Power Supply	12 VDC; PoE
Power Consumption	Basic: 2.5 W (12 VDC); 3.4 W (PoE); Max.: 6.7 W (12 VDC); 7.5 W (PoE) (H.265 + intelligence on+ WDR + illuminator intensity)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95% (RH), non-condensing
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95% (RH), non-condensing
Protection	IP67
Structure	
Casing Material	Inner core: Metal Cover: Metal Decoration ring: Metal Quick install mounting plate: Metal
Product Dimensions	95 mm × Φ106 mm (3.74" × 4.17")
Net Weight	0.53 kg (1.17 lb)
Gross Weight	0.67 kg (1.48 lb)

Ordering Information

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Туре	Model	Description
IP CAMERA	DH-IPC-HDW2649TM-S-T- PV	6MP Smart Dual Light Fixed-focal Eyeball WizSense Network Camera
	DH-PFA109	Mount Adapter
Accessories (Optional)	DH-PFB220C	Ceiling Mount Bracket
	DH-PFA151	Corner Mount Bracket

Туре	Model	Description
	DH-PFB305W	Wall Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFB2203W	Wall Mount Bracket
	DH-PFA156	Pole Mount Bracket
	G3416GW	G3/4" Water Joint
Accessories (Optional)	DH-PFA130-E	Water-proof Junction Box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-W100-256GB	MicroSD Card
	DHI-TF-P100/256GB	MicroSD Card

Accessories

Optional:



DH-PFA109

Mount Adapter



DH-PFA130-E

Water-proof Junction Box



DH-PFA150 Pole Mount Bracket

Corner Mount Bracket

DH-PFB220C

Ceiling Mount Bracket

DH-PFA151

DH-PFA156 Pole Mount Bracket





DH-PFB305W Wall Mount Bracket

DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



G3416GW G3/4" Water Joint

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PFM900-E Integrated Mount Tester

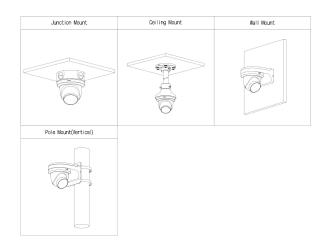
DHI-TF-W100-256GB MicroSD Card



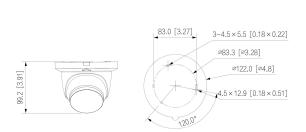


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Dimensions (mm[inch])



mm [inch]

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